	Application No.	Applicant(s)	-/
Notice of Allowability	10/626,625	KODAMA ET AL.	
	Examiner	Art Unit	$\overline{}$
	TAN Q NGUYEN	3661	~)
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet with (OR REMAINS) CLOSED in or other appropriate communication is s	this application. If not included inication will be mailed in due course.	
1. This communication is responsive to <u>07/25/2003</u> .			
2. ☑ The allowed claim(s) is/are <u>1-4</u> .			
3. $\boxtimes$ The drawings filed on <u>25 July 2003</u> are accepted by the Ex	raminer.		
<ul> <li>4.  Acknowledgment is made of a claim for foreign priority ur</li> <li>a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> <li>2.  Certified copies of the priority documents have</li> <li>3.  Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> <li>Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.</li> </ul>	e been received. e been received in Application cuments have been received of this communication to file	n No I in this national stage application froi	
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	es reason(s) why the oath or		OF
<ul> <li>6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") mus (a) ☐ including changes required by the Notice of Draftspers  1) ☐ hereto or 2) ☐ to Paper No./Mail Date</li> <li>(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date</li> </ul>	son's Patent Drawing Reviev . s Amendment / Comment or	in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			,,
<ol> <li>DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT</li> </ol>			<b>;</b>
Attachment(s)  1. ☑ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 12/01/03, 09/13/04  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. Interview Si Paper No./ 98), 7. Examiner's	formal Patent Application (PTO-152)  Jummary (PTO-413),  Mail Date  Amendment/Comment  Statement of Reasons for Allowance	
		TAN Q. NGUYEN PRIMARY EXAMINER	

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## **EXAMINER'S STATEMENT OF REASONS FOR ALLOWANCE**

- 1. This communication is an Examiner's reasons for allowance in response to application filed on July 25, 2003, assigned serial 10/626,625 and titled "VEHICLE STEERING CONTROL SYSTEM".
- 2. The following is the Examiner's statement of reasons for the indication of allowable subject matter:
- a. After carefully reviewing the application in light of the prior art of record and the search of all the possible areas relevant to the present application, a set of related prior art references has been found, but those prior art references are not deemed strong to make the application unpatentable. Thus, it is found that the application is now in condition for allowance.
- b. Although the prior art disclose several claimed limitations, none of the references teaches a vehicle steering control system having a three phase brushless motor which includes at least a steering control portion for determining a target angular position of the wheel steering shaft based on a detected angular position of the steering wheel shaft and a detected operation status of the vehicle, and controlling a rotation speed of the steering shaft driving motor based on the difference between the angular position of the wheel steering wheel shaft and the target angular position by a PWM control method so as to control an operation of the steering shaft driving motor such that the angular position of the wheel steering shaft approaches toward the target angular position, wherein the PWM control method does not perform switching in a state in which a first terminal is connected to a first pole of a DC power supply, and performs switching in a state in which a second terminal is connected a second pole of the DC power supply, wherein one of conducting terminals of a pair of two phase coils of the

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steering shaft driving motor that are simultaneously energized is made the first terminal while the other is made the second terminal, a terminal voltage detecting means and a failure determining means for detecting a failure in such way as recited in claim 1.

- c. Claims 1-4 are allowable over the prior art of record.
- 3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to examiner Tan Nguyen, whose telephone number is (703) 305-9755. The examiner can normally be reached on Monday-Thursday from 5:30 AM-4:00 PM

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Black, can be reached on (703) 305-8233.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks Washington, D.C. 20231

or faxed to the Central Fax:

(703) 872-9306, (for informal or draft communications, please label "PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park V, 2451 Crystal Drive, Arlington. VA., Seventh Floor (Receptionist).

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TAN Q. NGUYEN

Primary Examiner

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/tqn December 10, 2004